



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

FROGGATT

Atty. Ref.: 3926-3

Serial No. 10/005,819

TC/A.U.: 2877

Filed: December 14, 2001

Examiner: S. Turner

For: APPARATUS AND METHOD FOR THE COMPLETE
CHARACTERIZATION OF OPTICAL DEVICES INCLUDING LOSS,
BIREFRINGENCE AND DISPERSION EFFECTS

* * * * *

April 16, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the reference listed on the attached form PTO-1449, a copy of each of which is enclosed. This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

Respectfully submitted,

NIXON & VANDERHYE P.C.

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By:



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of

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APPLICANT

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(Use several sheets if necessary)



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,151,428	11/00	Vahala et al.			
	2002/0113972A1	8/02	Rosenfeldt et al.			
	5,173,743	12/92	Kim			
	6,160,826	12/00	Swanson et al.			
	4,886,361	12/89	Furstenau			
	2002/0067487A1	6/02	Zhou et al.			
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	5,323,258	6/94	Tsushima et al.			
	5,469,455	11/95	Reitz et al.			
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	5,844,235	12/98	Tachikawa et al.			

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DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
6-34446	2/8/94	Japan			ABSTRACT	
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2001-91408	4/6/01	Japan			ABSTRACT	

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Full Complex Transmission and Reflection Characterization of a Bragg Grating in a Single Laser Sweep, Mark Froggatt.
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A Coherent Optical Network Analyzer, A. Freundorfer, IEEE Transactions Photonics Technology Letters, Vol. 3, No. 12, Dec. 1991, pages 1139-1142.
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Distributed Measurement of Static Strain in an Optical Fiber with Multiple Bragg Gratings at Nominally Equal Wavelengths, Mark Froggatt et al., Applied Optics, April 1, 1998, Vol. 37, No. 10, pages 1741-1746.
High-Spatial-Resolution Distributed Strain Measurement in Optical Fiber with Rayleigh Scatter, Mark Froggatt et al., April 1, 1998, Vol. 37, No. 10, Applied Optics, pages 1735-1740.

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

A circular stamp with the text "O I P E" at the top and "JCTTA" at the bottom. In the center, it says "APR 16 2004". Around the bottom edge, it reads "PATENT & TRADEMARK OFFICE".

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				CLASS	SUBCLASS	IF APPROPRIATE
	4,718,120	1/88	Tzeng			
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	5,202,745	4/93	Sorin et al.			
	5,268,741	12/93	Chou et al.			
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	Sensitive Collinear Laser Spectroscopy on Fast Atom and Ion Beams, H. K. Carter, pages 60-64.
	The Vibrational Predissociation Lifetime of the HF Dimer Upon Exciting the "free-H" Stretching Vibration, Huang et al., J. Chem. Phys. 85(6), 9/15/86, pages 3338-3341.
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	Sub-Doppler Resolution Infrared Spectroscopy of the Acetylene Dimer: A Direct Measurement of the Predissociation Lifetime, Miller et al., J. Chem. Phys., Vol. 80, No. 11, June 1, 1984, pages 5453-5457,
	Computer Control of Broadly Tunable Lasers: Conversion of a Color Center Laser into a High Resolution Laser Spectrometer, Kasper et al., Applied Optics, Vol. 21, No. 2, January 15, 1982, pages 236-247.

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	2002/0167670A1	11/02	Baney			
	2003/0063285A1	4/03	Pering			
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	<p>Far-Field Radiation Pattern of Tunable Diode Lasers, pages 164-165.</p> <p>Analytical Applications of Lasers, Chemical Analysis Vol. 87.</p> <p>Spectral Smoothing, Applications of Numerical Methods in Molecular Spectroscopy.</p> <p>Spectral Techniques, Vol. II, 1981, Vanasse, pages 181-238.</p>
	<p>Diode Laser Spectra With Simultaneous Frequency Calibration, A. Chraplyvy, Applied Optics, Vol. 17, No. 17, September 1, 1978.</p>
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	<p>Tunable Diode Laser Spectroscopy of CO_2 in the 10- to $15\mu\text{m}$ Spectral Region-Lineshape and Q-Branch Head Absorption Profile, Eng et al., Journal of Molecular Spectroscopy 74, 1979, pages 331-344.</p>

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